

**What is claimed is:**

[Claim 1] 1. A plasma display panel, comprising:

a rear substrate comprising:

    a first substrate;

    a plurality of address electrodes, disposed on the substrate;  
    a rib, disposed on the substrate defining a plurality of discharge spaces, each  
    of the address electrodes disposed in one of the discharge spaces;

    a plurality of auxiliary address electrodes disposed between the rib and the  
    substrate;

    a fluorescent material layer disposed on sidewalls of the rib and portions of  
    the substrate corresponding to the discharge spaces covering the address  
    electrodes;

    a front substrate disposed above the rear substrate, comprising:

        a second substrate;

        a plurality of pairs of electrodes, disposed on the second substrate, wherein  
        the pairs of electrodes are located between the second substrate and the rear  
        substrate; and

    discharge gas disposed in the discharge spaces.

[Claim 2] 2. The plasma display panel of claim 1, further comprising a  
    dielectric layer and a protection layer, wherein the dielectric layer is  
    disposed on the second substrate covering the pairs of electrodes,  
    and the protection layer is disposed on the dielectric layer.

[Claim 3] 3. The plasma display panel of claim 2, wherein a material of  
    the protection layer comprises magnesium oxide.

[Claim 4] 4. The plasma display panel of claim 1, wherein the auxiliary  
    address electrodes are grounded, floating or coupled to a positive  
    voltage terminal.

**[Claim 5]** 5. The plasma display panel of claim 1, wherein the rib comprises a plurality of strip patterns.

**[Claim 6]** 6. The plasma display panel of claim 5, wherein the strip patterns parallel to each other.

**[Claim 7]** 7. The plasma display panel of claim 1, wherein the pairs of electrodes parallel to each other, and an extended direction of the pairs of electrodes are different from an extended direction of the address electrodes.

**[Claim 8]** 8. The plasma display panel of claim 7, wherein the extended direction of the pairs of electrodes is orthogonal to the extended direction of the address electrodes.

**[Claim 9]** 9. The plasma display panel of claim 1, wherein each of the pairs of electrodes comprises an X electrode and a Y electrode.

**[Claim 10]** 10. A driving method of a plasma display panel adapted to drive the plasma display panel as claimed in claim 1, the driving method comprising:

- (a) resetting the address electrodes and the pairs of electrodes , then electrically grounding the auxiliary address electrodes;
- (b) applying a scanning signal to the pairs of electrodes, and inputting an address signal to the address electrodes; and
- (c) electrically floating the auxiliary address electrodes or coupling the auxiliary address electrodes to a positive voltage terminal when inputting sustain signals to the address electrodes and the pairs of electrodes.

**[Claim 11]** 11. The driving method of claim 10, after resetting the address electrodes and the pairs of electrodes, further comprising repeating the steps (a) to (c) at least once.